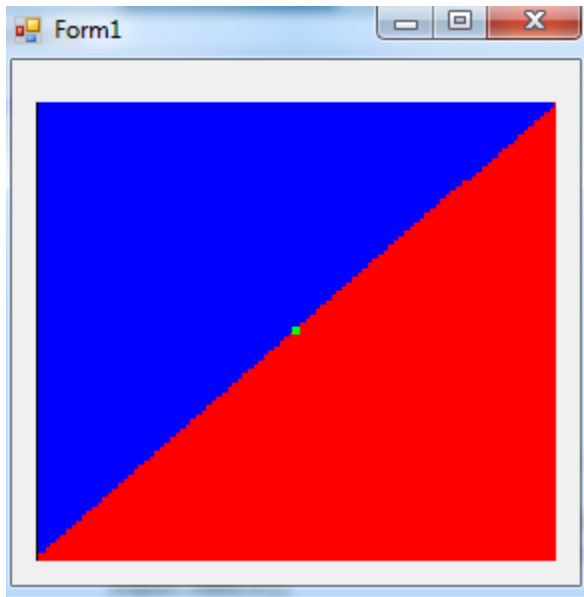
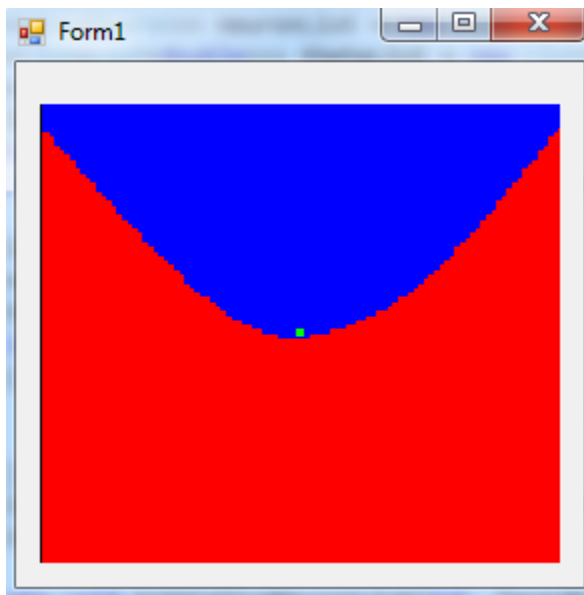


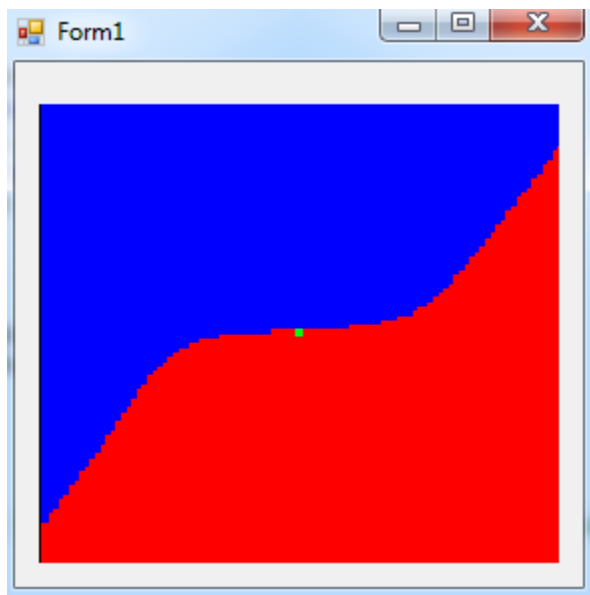
In this project, I have implemented a Neural Network that works based on BackPropagation. For the details of the implementation, you can refer to the NN.pdf file. You can define any linear or nonlinear function in trainNetwork method and after learning the network, the function that it is representing is plotted. I have used Tao framework to plot the function. The network is general and it can accept more layers and different number of Neurons although the results shown here are for three layers and 5 Neurons at the only hidden layer. See some results in the following:



$$x > y$$



$$x^2 > y$$



$$x^3 > y$$